

Renewable Resource Grant and Loan Application

**A New Source of Drinking Water for Bynum, Montana
Phase 1: Test drilling of the Virgelle Sandstone**

Sponsor: Bynum - Teton County Water and Sewer District
Technical Support: Montana Bureau of Mines and Geology

Project Goals:

Establish drilling targets (locations and depths) to develop a clean, abundant ground-water supply for Bynum.

Project Need:

The current water supply for the town of Bynum and the surrounding area is ground water from the local, shallow aquifer.

Public supply wells for Bynum have recently failed water-quality standards owing to the shallow nature of the aquifer and the recent extended drought.

The current supply of water for residential use and public use is in danger with respect to both quality and quantity

Development of deeper ground water is not possible in immediate area. The shallow aquifer is underlain by thousands of feet of shale that will yield little or no water.

Development of the Virgelle formation which is about 4 miles west of the town presents the best alternative for water supply for both the present and future of Bynum.

Products:

Hydrogeologic evaluation of the Virgelle Formation in area of Bynum including inorganic water quality

Recommended drilling targets (if any) for large capacity water-supply well

